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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/943,369	08/29/2001	Ahmad Yekta	1191/1H584-US1 9064	
7590 08/02/2005			EXAMINER	
DARBY & DARBY P.C.			NILAND, PATRICK DENNIS	
805 Third Avenue New York, NY 10022			ART UNIT	PAPER NUMBER
			1714	1714
			DATE MAILED: 08/02/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/943,369	YEKTA ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Patrick D. Niland	1714				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 31 Ma	<u>ay 2005</u> .					
2a) This action is <b>FINAL</b> . 2b) ⊠ This						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
<ul> <li>4) ☐ Claim(s) 17-31 is/are pending in the application 4a) Of the above claim(s) is/are withdraw</li> <li>5) ☐ Claim(s) is/are allowed.</li> <li>6) ☐ Claim(s) 17-31 is/are rejected.</li> <li>7) ☐ Claim(s) is/are objected to.</li> <li>8) ☐ Claim(s) are subject to restriction and/or</li> </ul>	vn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	_					
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary Paper No(s)/Mail Da	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

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1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/31/05 has been entered.

The amendment of 5/31/05 has been entered. Claims 17-31 are pending.

- 2. The examiner requests documents which the applicant may possess or know of relating to the general concept of "secondary standards", particularly those references listed at page 4 of the specification in this regard as these references are not readily available to the PTO. This request is made per 37 CFR 1.105 and MPEP 704.10 et seq.
- 3. Claims 17-31 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
- A. There is not basis in the originally filed specification for the newly added recitation of "wherein the concentration of the dye is adjusted such that the fluorescent signal of the dye in the secondary standard after gelling the mixture is at least approximately equal to the fluorescent signal of a known concentration of the dye under conditions of the analyte sample measurement". Page 14, lines 9-11 is noted but the statement there is not equivalent in scope to the instant claim limitation and the newly added scope is new matter.

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4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 17-23, 27, and 30-31 are rejected under 35 U.S.C. 102(a) as being anticipated by US Pat. No. 6485703 Cote et al..

Cote discloses the instantly claimed method for preparing secondary standards and the compositions used therein at the abstract; column 6, lines 9-67, column 7, lines 45-47, which will necessarily give a viscosity change with pH change and/or with temperature change; column 8, lines 27-44; and the remainder of the document. The polymers will be amorphous and are therefore liquid by definition. Phase changing hydrogel is disclosed at column 9, lines 55-65. The mixture will necessarily be placed into an instrument's container, which falls within the scope of the instant claims 17-23 and 27. The applicant's argument re "consisting essentially of" is not persuasive because the component that the applicant states that they wish to exclude of Cote is the component which falls within the scope of the instantly claimed viscosity changing polymers. The instant claims do not exclude the properties argued by the applicant. "Consisting essentially of" does not exclude any other component of the patentee because no other component has been shown to materially affect the basic and novel characteristics of the instant

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claims. The applicant has not shown the additional ingredients of the reference to materially affect the basic and novel characteristics of the composition. It is therefore not seen that "consisting essentially of" excludes anything from the composition of the reference. See In re Janakirama-Rao, 317 F 2d 951, 137 USPQ 893 (CCPA 1963) and Ex parte Davis et al., 80 USPO 448 (PTO Bd. App. 1948). The "gelling" step of the claims necessarily occurs in the polymer of the patentee because it is a hydrogel. The argument that the patentee does not disclose or suggest a process for preparing a standard, or a process for preparing a container for calibrating an instrument, comprising gelling a mixture and therefore, Cote does not anticipate claims 17-23 and 27 is not persuasive because the patentee performs the instantly claimed method steps. It is not seen that the recitation "for preparing a secondary standard" further defines the process by requiring anything other than the steps recited after "of:" nor that the method of the reference does not result in a product which could be used as a secondary standard after finishing the method steps which are the subject of the instant claims. The applicant provides no evidence that an analyte sensitive material is not necessarily and inherently used as a standard because a standard need never contact said analyte by definition of "standard". The patentee's abstract states that, in the disclosed methods for analyte detection, they provide hydrogel particles which undergo a measurable change in properties as a function of their interaction with analytes. Thus, they are clearly detecting the hydrogel particles rather than the analyte. Thus, the hydrogel particles of the patentee are secondary standards as defined in the applicant's specification, page 5, lines 19-24 because they behave as a secondary standard is described on page 5 of the instant specification. It is not seen that "closely mimics" nor "secondary standard" does not encompass the interaction described by Cote to give the

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detectable event. The standard of Cote would appear to be secondary in that the detected component is not the analyte per se but the hydrogel albeit as it is effected by the analyte. This would seem to distinguish the standard of the reference from being "primary" and thus make it "secondary". The Applicant's argument that the product of Cote contains the analyte is not persuasive since the analyte of the instant claims may be anything analyzable. The instant claims do not exclude the standard from containing or not containing the analyte nor do they specify what the analyte is. This argument does not distinguish the instant claims over the reference therefore. The recited future intended use of the resulting product of the method of the patentee and the instant claims is not material in determining whether the process of the instant claims 17-23 and 27 is novel because it does not further limit the process of the instant claims so as to remove the process of the patentee as anticipating it because the product resulting from the process of the patentee necessarily and inherently can be used in these future processes and the product of the process of the patentee will be in some type of container. The applicant's amendment requiring "wherein the concentration of the dye is adjusted such that the fluorescent signal of the dye in the secondary standard after gelling the mixture is at least approximately equal to the fluorescent signal of a known concentration of the dye under conditions of the analyte sample measurement" is not persuasive because the event measured in Cote is dependant on the interaction of the hydrogel containing dye of Cote with the analyte. Thus, "the concentration of the dye" of Cote must necessarily give "the fluorescent signal of the dye in the secondary standard after gelling the mixture [which] is at least approximately equal to the fluorescent signal of a known concentration of the dye under conditions of the analyte sample masurement" because conditions of analyte sample measurement are required to detect the

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events of the hydrogel of Cote used for detection. Stated more simply, 6 units of the dye of Cote will give the same measurement as 6 units of the dye of Cote where both are in the analyte which gives the action described in Cote's abstract. The choice of 6 units is arbitrary but adding any amount of the dye constitutes adjusting the concentration from 0 to that added amount and is in fact the "adjustment" of the instant claims. Adding the dye of Cote to the hydrogel of Cote, i.e. changing the concentration from 0 to any non-zero value, falls within the "adjusting" of the instant claims. The newly added limitation therefore encompasses any amount of dye that may be used by the patentee and therefore does not differentiate the instantly claimed inventions from those disclosed by the patentee. This rejection is therefore maintained.

7. Claims 17-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Pat. No. 6485703 Cote et al. in view of US Pat. No. 6077669 Little et al..

Cote discloses the instantly claimed methods as discussed in paragraph 6 above. Arguments relating to Cote and the newly added amendments are addressed in paragraph 6 above also.

It would have at least been obvious to one of ordinary skill in the art to calibrate an instrument using these mixtures because the ordinary skilled artisan would recognize that the reading measured from the signal described in the abstract of Cote must somehow be correlated to an amount of analyte. The process of making this correlation is "standardizing" the measurement. This process is well known for any measuring device as is the instant fluorescent analyzation. Note that Cote discloses measuring optical properties and the choice of the fluorescent optical properties is well known as seen from the references cited by the applicant at page 4 of the instant specification. This would be calibration or standardization and is discussed at column 8 of Little et al. It would have been obvious to one of ordinary skill in the art to use

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ammonia gas to achieve whatever the desired pH should be because this is a well known manner to affect pH and would be readily applicable to the systems of Cote. The applicant's argument re "consisting essentially of" is not persuasive because the component that the applicant states that they wish to exclude of Cote is the component which falls within the scope of the instantly claimed viscosity changing polymers. The instant claims do not exclude the properties argued by the applicant. "Consisting essentially of" does not exclude any other component of the patentee because no other component has been shown to materially affect the basic and novel characteristics of the instant claims. The applicant has not shown the additional ingredients of the reference to materially affect the basic and novel characteristics of the composition. It is therefore not seen that "consisting essentially of" excludes anything from the composition of the reference. See In re Janakirama-Rao, 317 F 2d 951, 137 USPO 893 (CCPA 1963) and Ex parte Davis et al., 80 USPQ 448 (PTO Bd. App. 1948). The "gelling" step of the newly added claims necessarily occurs in the polymer of the patentee because it is a hydrogel. The argument that the patentee does not disclose or suggest a process for preparing a secondary standard, or a process for preparing a container for calibrating an instrument, comprising gelling a mixture and therefore, Cote does not anticipate claims 17-23 and 27 is not persuasive because the patentee performs the instantly claimed method steps. The recited future intended use of the resulting product of the method of the patentee and the instant claims is not material in determining whether the process of the instant claims 17-23 and 27 is novel because it does not further limit the process of the instant claims so as to remove the process of the patentee as anticipating it because the product resulting from the process of the patentee necessarily and inherently can be used in these future processes and the product of the process of the patentee will be in some type

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of container. The applicant's arguments regarding whether or not Little discloses viscosity changing polymers is not persuasive because all polymers have the ability to change viscosity with some changing environmental factor such as temperature, pH, etc.. This argument ignores the reason for which Little was clearly cited above and the fact that Cote is the primary reference cited for this factor with Little cited to explain, as stated above. For the reasons stated in this paragraph and in paragraph 6 above, this rejection is therefore maintained.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick D. Niland whose telephone number is 571-272-1121. The examiner can normally be reached on Monday to Thursday from 10 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan, can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
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